CLAIMS

1. A power transmission comprising:

an input shaft;

an output means;

a first planetary gearset, a second planetary gearset, and a third planetary gearset, a member of said first planetary gearset being continuously connected with a member of said third planetary gearset and with said output means;

another member of said first planetary gearset being connected with a member of said second planetary gearset;

another member of said second planetary gearset being continuously connected with said input shaft;

a further member of said second planetary gearset being connected with another member of said third planetary gearset;

a transmission housing including a first end wall, a second end wall, and an outer housing joining said first and second end walls, said housing and said planetary gearsets cooperating to define four spaces including a first space defined between said first end wall and said first planetary gearset, a second space defined between said second end wall and said third planetary gearset, a third space defined radially outward of said planetary gearsets and inward of said outer housing, a fourth space defined between said first and second planetary gearsets;

five selectively engageable torque-transmitting mechanisms operatively connected with said planetary gearsets including two torque-transmitting mechanisms being disposed in said first space and being operatively connected with members of said first planetary gearset;

one of said torque-transmitting mechanisms being disposed in a position selected from a group consisting said second space and said third space;

one of said torque-transmitting mechanisms being disposed in a position selected from a group consisting of said first space, said third space, and said fourth space;

one of said torque-transmitting mechanisms being disposed in a position selected from a group consisting of said first space and said fourth space; and

said torque-transmitting mechanisms being engaged in combinations of two to establish six forward speed ratios and one reverse speed ratio.

2. The power transmission defined in claim 1 further wherein:

said two torque-transmitting mechanisms disposed in said first space both having servo-mechanisms with stationary pistons.

3. The power transmission defined in claim 1 further wherein:

at least three of said torque-transmitting mechanisms are disposed within said first space.

4. The power transmission defined in claim 1 further wherein:

at least four of said torque-transmitting mechanisms are disposed in said first space and one of said torque-transmitting mechanisms is disposed in said third space.

5. The power transmission defined in claim 1 further wherein:

two of said torque-transmitting mechanisms are disposed in said first space, two of said torque-transmitting mechanisms are disposed in said third space, and one of said torque-transmitting mechanisms is disposed in said second space.

6. The power transmission defined in claim 1 further wherein:

four of said torque-transmitting mechanisms are disposed in said first space and one of said torque-transmitting mechanisms is disposed in said second space.

7. The power transmission defined in claim 1 further wherein:

said first end wall has an extension portion on which friction members of two of said torque-transmitting mechanisms are rotatably disposed.

8. The power transmission defined in claim 1 further wherein:

three of said torque-transmitting mechanisms are disposed in said first space, one of said torque-transmitting mechanisms is disposed in said second space, and one of said torque-transmitting mechanisms has a servo-mechanism disposed in said fourth space, and friction plates disposed in said third space.

9. The power transmission defined in claim 1 further wherein:

three of said torque-transmitting mechanisms are disposed in said first space and each of said three torque-transmitting mechanisms having stationary pistons, one of said torque-transmitting mechanisms being disposed in said third space, and one of said torque-transmitting mechanisms having a servo-mechanism disposed in said second space and friction plates disposed in said third space.